ASUS Inspiring Innovation • Persistent Perfection

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P8H61-M LX R2.0

- DIGI+ VRM Digital Power Design
- Network iControl - Real-time Network Bandwidth Control
- EPU - Energy Efficiency All Around
- UEFI BIOS - EZ Mode - Flexible & Easy BIOS Interface
- AI Suite II - One-stop Access to Innovative ASUS Features
- **Windows 8 Ready – Assured Compatibility**

CPU, Chipset and Graphics Features

LGA1155 socket for Intel® 3rd/2nd Generation Core™ i7 / Core™ i5 / Core™ i3 / Pentium® / Celeron® Processors

This motherboard supports the Intel® 3rd/2nd generation Core™ i7/i5/i3/Pentium®/Celeron® processors in the LGA1155 package, with iGPU, memory, and PCI Express controllers integrated to support onboard graphics out with dedicated chipsets, 2-channel (2 DIMMs) DDR3 memory, and 16 PCI Express 3.0/2.0 lanes. This provides great graphics performance. Intel® 3rd/2nd generation Core™ i7/i5/i3/Pentium®/Celeron® processors are among the most powerful and energy efficient CPUs in the world.

Intel® H61 Express Chipset

The Intel® H61 Express Chipset is a single-chipset design to support the new 1155 socket Intel® 3rd/2nd Generation Core™ i7 / Core™ i5 / Core™ i3 / Pentium® / Celeron® processors. It provides improved performance by utilizing serial point-to-point links, which allows increased bandwidth and stability.

PCIe 3.0 Ready

PCI Express® 3.0 (PCIe 3.0) is the latest PCI Express bus standard with improved encoding schemes that provide twice the performance of current PCIe 2.0. Total bandwidth for a x16 link reaches a maximum of 32GB/s, double the 16GB/s of PCIe 2.0 (in x16 mode). As such, PCIe 3.0 provides users unprecedented data speeds, combined with the convenience and seamless transition offered by complete backward compatibility with PCIe 1.0 and PCIe 2.0 devices. PCIe 3.0 will become a must-have feature for users who wish to improve and optimize graphic performance, as well as have the latest technology available to them.

*PCIe 3.0 speed is supported by Intel® 3rd generation Core™ processors.

Dual-Channel DDR3 2200(O.C) / 2133(O.C) / 2000(O.C) / 1866 (O.C) / 1600 / 1066 / 1333 support

The motherboard supports DDR3 memory that features data transfer rates of 2200(O.C)/2133(O.C)/2000(O.C)/1866(O.C)/1600/1066/1333 suppor MHz to meet the higher bandwidth requirements of the latest 3D graphics, multimedia, and Internet applications. The dual-channel DDR3 architecture enlarges the bandwidth of your system memory to boost system performance.

• DDR3 1600 MHz and higher memory frequency is supported by Intel® 3rd generation processors.
• Due to the CPU behavior, DDR3 2133/1866 memory module will run at DDR3 2000/1800 MHz frequency.

ASUS Exclusive Features

DIGI+ VRM Digital Power Design

ASUS motherboards using the Intel® H61 chipset employ precise digital voltage regulation for the CPU, called DIGI+ VRM (Voltage Regulation Modules) digital power design. The CPU voltage and VRM frequency are adjusted via either carefully developed automated modes, or by using user-defined profiles. The effect is that DIGI+ VRM technology ensures greater energy efficiency and the best possible PC stability. Boosted by world-renowned ASUS quality, it creates an ideal computing platform for a diverse range of applications, from gaming to multimedia or office work and heavy multitasking. Engineered and tested to assure unmitigated performance, ASUS H61 boards with DIGI+ VRM remain efficient and stability, for reliable application in every scenario.

AI Suite II

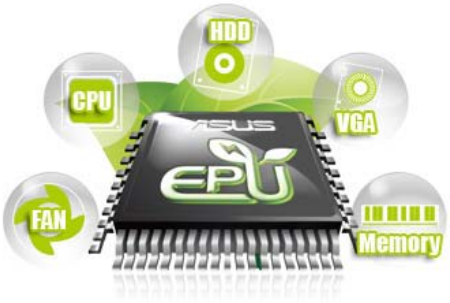
EPU

One stop Access to Innovative ASUS Features
With its fast user-friendly interface, ASUS AI Suite II consolidates all the exclusive ASUS features into one simple to use software package. It allows you to supervise overclocking, energy management, fan speed control, voltage and sensor readings. This all-in-one software offers diverse and ease to use functions, with no need to switch back and forth between different utilities.

All-In-One Interface

Energy Efficiency All Around
Tap into the world's first real-time PC power saving chip through a simple onboard switch or AI Suite II utility. Get total system-wide energy optimization by automatically detecting current PC loadings and intelligently moderating power consumption. This also reduces fan noise and extends component longevity!

Energy Saving



UEFI BIOS (EZ Mode)

Flexible and Easy BIOS Interface
ASUS UEFI BIOS offers the first mouse-controlled graphical BIOS designed with selectable modes, providing a user-friendly interface that goes beyond the traditional keyboard-only controls. It also natively supports fully-utilized hard drives larger than 2.2TB in 64-bit operating systems.

Easy & Flexible

ASUS Exclusive Interface
EZ Mode displays frequently-accessed info. Users can choose system performance settings, and drag and drop boot priorities. Advanced Mode for performance enthusiasts includes detailed DRAM settings via a dedicated memory info page for complete insight.

New Upgrade! Quick and Easy Info for Enhanced System Control
- F12 BIOS snapshot hotkey for sharing UEFI information and troubleshooting
- New F3 Shortcut for most accessed information
- ASUS DRAM SPD (Serial Presence Detect) information for accessing memory information, detecting faulty DIMMs, and helping with difficult POST situations.

Network iControl

Real-time Network Bandwidth Control
With a single-click on/off button, the application currently in use has its data and network bandwidth prioritized over other programs. Moreover, you can prioritize your favorite software easily by configuring profiles through the intuitive user interface. Within the profile, programs can be pre-scheduled to run in a specific time period to avoid network congestion and long-waits on downloads. Auto PPPoE network connection provides a one-step setup for enhanced online convenience. Overall, it's an intuitive network bandwidth control center.

Network iControl

A Single Click to Give Software Currently in Use Priority of Network Bandwidth

Anti-Surge Protection

Protect Your Device Anti-Surge Protection Design detects overvoltage conditions and prevents voltage surges from spreading in real time. It also actively cuts off the overvoltage supply to protect the system.

1. Real-time over voltage detection.
2. Active protection against potential damage to your motherboards and systems.

Anti-Surge

Fanless Design: stylish heatsink solution

The stylish heatsink features 0-dB thermal solution that offers users a noiseless PC environment. Not only the beautiful shape upgrades the visual enjoyment for motherboard users, but also the heatsink design lowers the temperature of the chipset and power phase area through high efficient heat-exchange. Combined with usability and aesthetics, the ASUS stylish heatsink will give users an extremely silent and cooling experience with the elegant appearance!

Stylish Heatsink

Fan Xpert

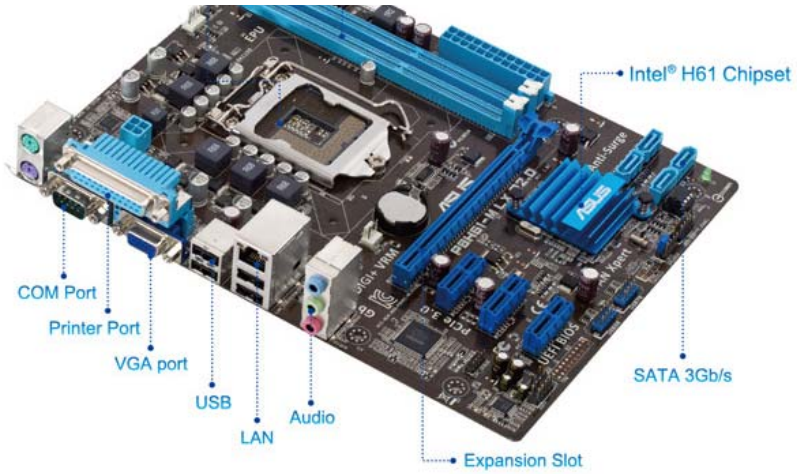
ASUS Fan Xpert intelligently allows you to adjust the CPU and chassis fan speeds according to different ambient temperatures caused by different climate conditions in different geographic regions and your PC's loading. The built-in variety of useful profiles offer flexible controls of fan speed to achieve a quiet and cool environment.

Active Quiet & Cool

ErP ready

The motherboard is European Union´s Energy-related Products (ErP) ready, and ErP requires products to meet certain energy efficiency requirements in regards to energy consumptions. This is in line with ASUS vision of creating environment-friendly and energy-efficient products through product design and innovation to reduce carbon footprint of the product and thus mitigate environmental impacts.

P8H61-M LX R2.0 Product Overview



Specifications

CPU	Intel® Socket 1155 for 3rd/2nd Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors Supports Intel® 32 nm CPU Supports Intel® 22 nm CPU Supports Intel® Turbo Boost Technology 2.0 * The Intel® Turbo Boost Technology 2.0 support depends on the CPU types. * Refer to www.asus.com for CPU support list
Chipset	Intel® H61(B3)
Memory	2 x DIMM, Max. 16GB, DDR3 2200(O.C.)/2133(O.C.)/2000(O.C.)/1866(O.C.)/1600/1333/1066 MHz Non-ECC, Un-buffered Memory Dual Channel Memory Architecture Supports Intel® Extreme Memory Profile (XMP) * 1600MHz and higher frequency is supported by Intel® 3rd generation processors. * Refer to www.asus.com or user manual for the Memory QVL (Qualified Vendors Lists). * Due to OS limitation, when installing total memory of 4GB capacity or more, Windows® 32-bit operation system may only recognize less than 3GB. Install a 64-bit Windows® OS when you want to install 4GB or more memory on the motherboard. * Due to the CPU behavior, DDR3 2133/1866MHz memory module will run at DDR3 2000/1800MHz frequency as default.
Graphic	Integrated Graphics Processor VGA output support : RGB port - Supports RGB with max. resolution 2048 x 1536 @ 75 Hz Supports Intel® Quick Sync Video
Expansion Slots	1 x PCIe 3.0/2.0 x16 (blue) *1 3 x PCIe 2.0 x1
Storage	**Intel® H61(B3) chipset :** 4 x SATA 3Gb/s port(s), blue
LAN	Realtek®, 1 x Gigabit LAN Controller(s)
Audio	Realtek® ALC887 8-Channel High Definition Audio CODEC *2
USB Ports	**Intel® H61(B3) chipset :** 8 x USB 2.0 port(s) (4 at back panel, black, 4 at mid-board)
Overclocking Features	**Overclocking Protection :** - ASUS C.P.R.(CPU Parameter Recall)
Special Features	**ASUS EPU :** - EPU **ASUS Digital Power Design :** - Industry leading Digital 3 + 1 + 1 Phase Power Design - ASUS DIGI+ VRM Utility **ASUS Exclusive Features** : - AI Suite II - Anti-Surge - Low EMI Solution - ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface - Network iControl **ASUS Quiet Thermal Solution** : - Stylish Fanless Design Heat-sink solution - ASUS Fan Xpert **ASUS EZ DIY :** - ASUS CrashFree BIOS 3

	- ASUS EZ Flash 2 - ASUS MyLogo 2
Back I/O Ports	1 x PS/2 keyboard (purple) 1 x PS/2 mouse (green) 1 x D-Sub 1 x LAN (RJ45) port(s) 4 x USB 2.0 1 x COM port(s) 1 x Parallel port(s) 3 x Audio jack(s)
Internal I/O Ports	2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s) 4 x SATA 3Gb/s connector(s) 1 x CPU Fan connector(s) 1 x Chassis Fan connector(s) 1 x S/PDIF out header(s) 1 x 24-pin EATX Power connector(s) 1 x 4-pin ATX 12V Power connector(s) 1 x Front panel audio connector(s) (AAFP) 1 x Internal speaker connector(s) 1 x System panel(s)
Accessories	User's manual I/O Shield 2 x SATA 3Gb/s cable(s)
BIOS	64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.7, ACPI 2.0a, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3, F12 PrintScreen, F3 Shortcut Function and ASUS DRAM SPD (Serial Presence Detect) memory information
Manageability	WfM 2.0, DMI 2.0, WOL by PME, WOR by PME, PXE
Support Disc	Drivers ASUS Utilities ASUS Update Anti-virus software (OEM version)
Form Factor	uATX Form Factor 9.6 inch x 7.2 inch (24.4 cm x 18.3 cm)
Note	*1: PCIe 3.0 speed is supported by Intel® 3rd generation Core™ processors. *2 Use a chassis with HD audio module in the front panel to support an 8-channel audio output